# LED High-Bay Lighting

by Bastion Technologies

The Next Generation of Solid State Lighting

Model:CL12HBA3M118-01, CL12HBB3M118-01
CL12HBC3M118-01, CL12HBA2M84-01
CL12HBB2M84-01, CL12HBC2M84-01

# User Manual

Contractor Friendly | Recycled Packaging | Tools Needed

lead-free | RoHS 2002/95/EC | IP65 Suitable for Dry, Damp or Wet Locations | Intertek 4005486

## INTRO

Introducing the next generation in ultra-performance LED commercial lighting by Bastion Technologies, with patented modular design and tool-less maintenance. Each fixture combines the power of the brightest CREE© XP-G LED with durable and high efficiency variable-input driver to produce the most adaptable light possible.

Each module utilizes specially engineered optics and thermal solutions to maximize light output and ensure long-lasting performance. The final result is the highest performing high bay available today at a price point more affordable than inferior products. Bastion's latest LED High-Bay delivers industry-leading performance and design for safe and easy installation+maintenance so all you have to do is sit back and "enjoy a life well lit"™.

## FEATURES

**Lamp Warranty:** Industry Leading 10-Year Limited Warranty

**Variable Voltage:** Variable input driver accepts 110, 220 and 277VAC

**Power Saving:** Consuming only 118 Watts for 3-module model and 84 Watts for 2-module model

**Smooth Lighting:** 40 pcs of the latest CREE© XP-G LEDs per module coupled with specially engineered optic lens ensure even light distribution with no multi-shadow effect

**Safe & Easy Installation:** Tool-Free & plug-and-play Modular design allow ease of upgrade & maintenance

**Safety Assurance:** ETL Listed

**Long Life:** The Entire Luminaire, not just the LEDs, is designed to last 50,000+ Hours

**Eco-Friendly:** RoHS Compliant, 100% Recyclable

**Cool Operation:** Patented Thermal-Management Modular System utilize aluminum heat sink fins individually welded to the main plate to ensure low junction temperature which translates to longevity and consistent performance

**Better Materials:** High-performance CREE© LED, high-efficiency Mean Well driver, high-strength steel casing

**Light-Weight:** The entire luminaire is less than 10Kg

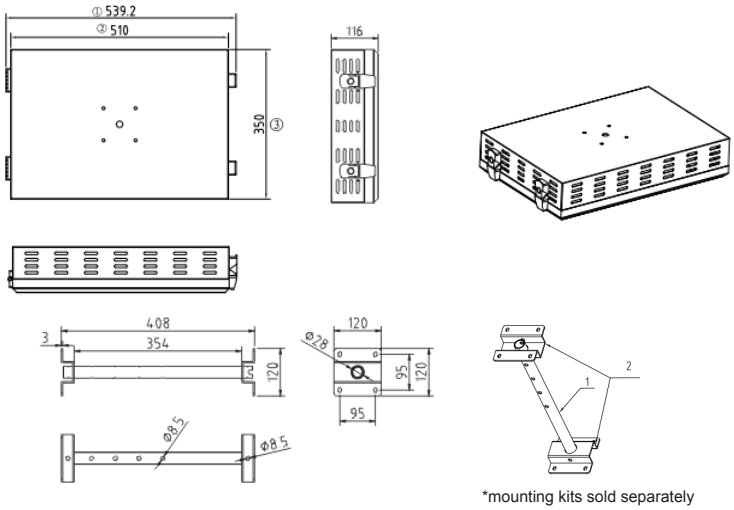
## SPECIFICATIONS

**84W CL12HB Series 2-Modules**

| | |
|---|---|
| **Dimension:** | 540 x 350 x 116 mm |
| **Weight:** | ~9Kg |
| **Power Consumption:** | 84 Watts |
| **Input Voltage:** | 85-305VAC |
| **Power Frequency:** | 50/60Hz |
| **Color Temperature:** | 4100K-8000K |
| **Luminous Flux(sustained):** | >9500 lm |
| **Luminaire Efficacy:** | >110 lm/W |
| **Power Factor:** | >0.9 |
| **CRI:** | >70 |
| **Light Spread Angle:** | 93° |
| **Operating Temperature:** | -25~+45°C |
| **Light Source:** | CREE© XP-G LED |
| **L70 Life:** | >50,000 hr. |

**118W CL12HB Series 3-Modules**

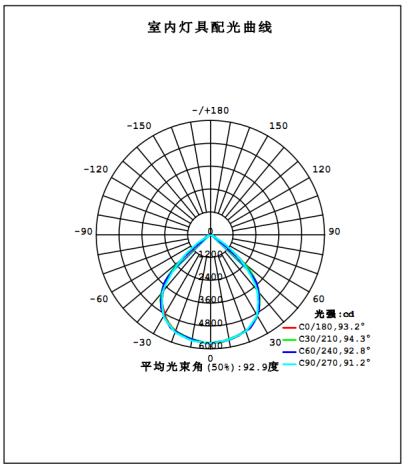
| | |
|---|---|
| **Dimension:** | 540 x 350 x 116 mm |
| **Weight:** | ~10Kg |
| **Power Consumption:** | 118 Watts |
| **Input Voltage:** | 85-305VAC |
| **Power Frequency:** | 50/60Hz |
| **Color Temperature:** | 4100K-8000K |
| **Luminous Flux(sustained):** | >14000 lm |
| **Luminaire Efficacy:** | >110 lm/W |
| **Power Factor:** | >0.9 |
| **CRI:** | >70 |
| **Light Spread Angle:** | 93° |
| **Operating Temperature:** | -25~+45°C |
| **Light Source:** | CREE© XP-G LED |
| **L70 Life:** | >50,000 hr. |

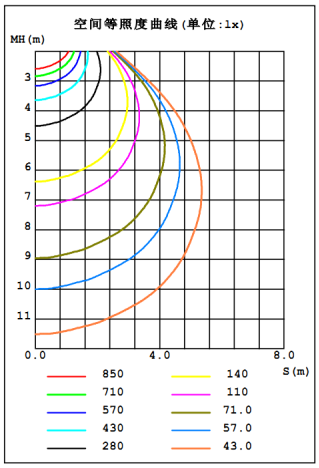



*mounting kits sold separately

COPYRIGHT © 2012 BASTION TECHNOLOGIES, ALL RIGHTS RESERVED.

## PHOTOMETRICS



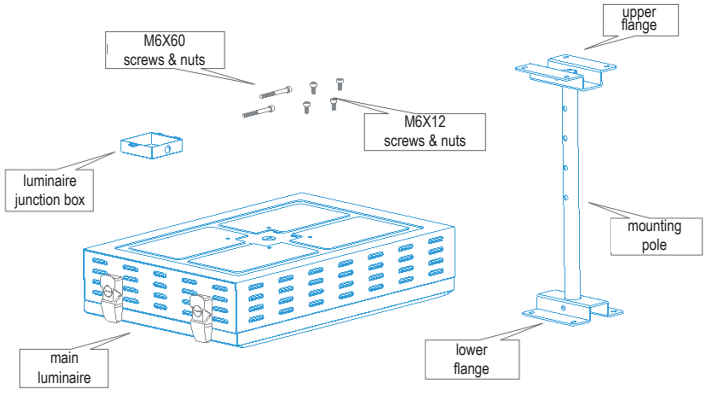




## APPLICATIONS

**Manufacturing Plants**
**Warehouse Lighting**
**Logistics Base**
**Amusement Parks**
**Convention Centers**
**Workshop Lighting**
**Sports Venues**
**Gymnasiums**
**Big-Box Stores**

## INSTALLATION

1. Please **read all instructions prior to installation** and email technical support at info@bastiontech.com for clarification if you are unclear about the instructions. This LED High-Bay Luminaire **must be installed by qualified personel in accordance with local and/or state laws. Failure to follow the instructions or improper installation may result in serious harm/damage/injury & void the product warranty. Any instructions provided in regards to the mounting kit only applies to those sold by Bastion Technologies. Disconnect power prior to installation!**
2. The Mounting Kit (sold separately) must be installed before installing the LED High-Bay Luminaire at the desired location. If a different mounting kit is to be used (eg kits not manufactured by Bastion Technologies), make sure the mounting kit/hardware is rated for the type of installation and the expansion screws are rated to safely handle at least 35Kg of weight. M6 expansion screws can be used to secure the mounting kit.
3. The electrical wire (or power cord) supplying power from the building to the LED High-Bay Luminaire must at least be 18 AWG UL approved wire. Run the wire (power cord) through the mounting shaft/pole to the bottom of the mounting kit where the kit will connect with the luminaire. (see Figure #1) Make sure to have at least 6 inches of extra wiring.
4. Unlock the luminaure using the supplied key(s) and open the luminaire. By using a flat-head screwdriver, open the circular flap covering the top-center hole where the electrical wiring will enter the luminaire. Align the screw holes of the lower flange (of the mounting kit) with the top of the luminaire and secure the lower flange to the top of the luminaire using four(4) M6x12 screws and nuts (torque for these screws are rated at 8N.m). Remove the luminaire junction box located at the inside top-center of the luminaire using a Phillips screwdriver. (see Figure #2)
5. Run the electrical wire/power cord in step 3 (you should have at least 6 inches) through the center hole of the lower flange and luminaire in step 4 into the luminaire, and secure the luminaire to the mounting kit pole by using the M6x60 screw and nut, connecting the pole to the lower flange. (see Figure #3)
6. Run the power cord of the luminaire and the grounding wire through the hole of the luminaire junction box, then connect the luminaire power cord and grounding wire with the power cord from the building using terminal caps following the color codes of the power cord (Brown for Live, Blue for Neutral, Yellow/Green for ground). Secure the luminaire junction box previously removed in step 4 to its original position with the M3x6 screws.
7. Close the luminaire and secure the lockable clips. Connect the power and turn on the luminaire to verify that it is working correctly.
8. Installation complete! (see Figure #4)



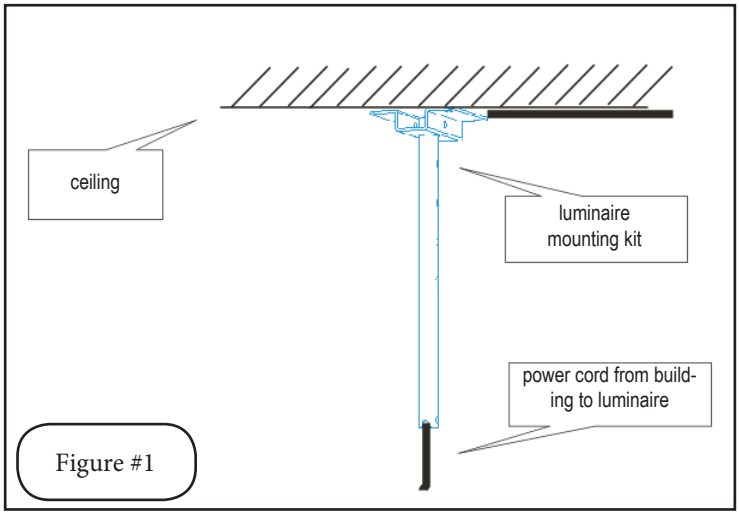




Figure #1

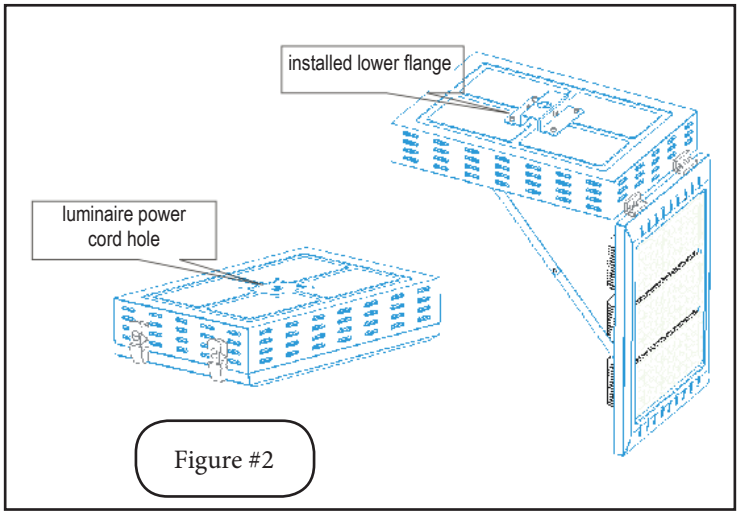



Figure #2

COPYRIGHT © 2012 BASTION TECHNOLOGIES, ALL RIGHTS RESERVED.

Figure #3

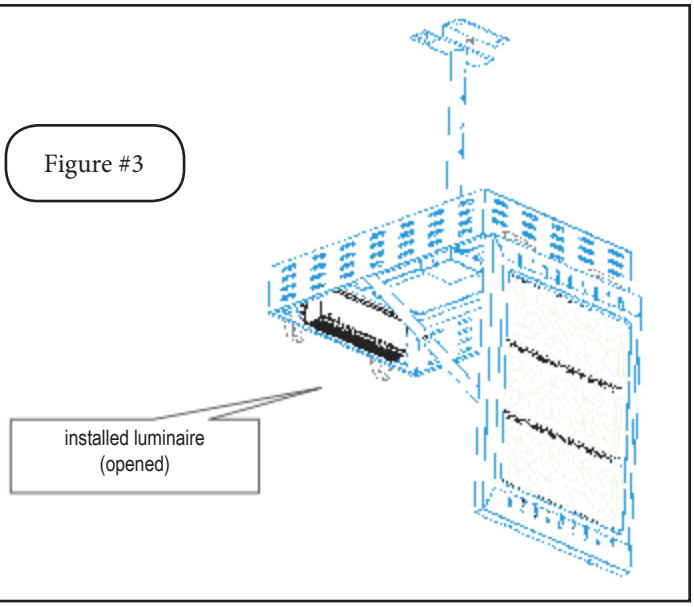
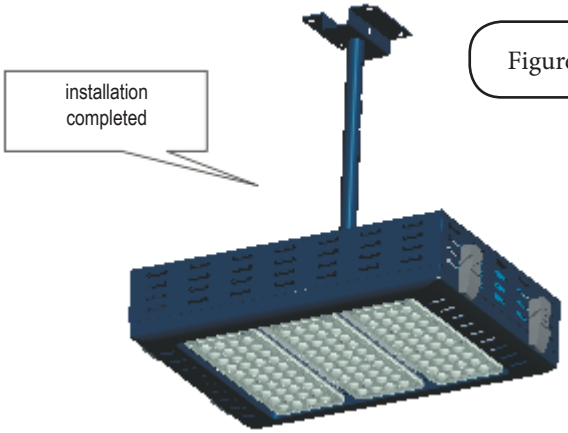



Figure #4




## WARRANTY INFO

1. LIMITED WARRANTY. Seller warrants that its products furnished under this Agreement will conform to and perform in accordance with Seller's published specifications for such products as in effect on the date of shipment (within the deviations specified therein) for a period of ninety (90) days from such date; provided, however for Seller's light emitting diode module products, the period shall be the earlier of (a) ten (10) years after the date the products are shipped by Seller to Buyer or (b) nine (9) years and six (6) months after the date the products are shipped by Buyer to its customer. During the warranty duration mentioned above, the first seven (7) years, product(s) covered under this warranty will be eligible for full warranty coverage; each year after the first seven (7) year warranty period, the coverage decreases by twenty-five percent (25%) until the end of the warranty period. (year 1-7=100%, year 8=75%, year 9=50%, year 10=25%) Seller's liability and Buyer's sole remedy under this warranty is limited to repair or replacement of items determined by Seller to be defective or, at Seller's sole option, credit towards Buyer's account or refund of the purchase price paid Seller for such items. Seller shall have no liability under this warranty unless Seller is notified in writing promptly upon Buyer's discovery of the defect and the defective items are returned to Seller, freight prepaid, and received by Seller not later than ten (10) days after expiration of the warranty period.
2. This warranty shall not apply to any defect or failure to perform resulting from misapplication, improper installation, improper operation, abuse or contamination, whether internal or external, and Seller shall have no liability of any kind for failure of any equipment or other items in which the products are incorporated. This warranty shall not apply to products manufactured by Seller to Buyer's designs or specifications, and no warranty is given as to such non-standard products unless otherwise specifically agreed to in writing by Seller. This warranty shall not apply to products not manufactured by Seller. Any products not exclusively manufactured by Seller shall only be covered by warranty of the original manufacturer of the products and Seller will not be liable for such product unless specified in writing Seller's intent to extend Seller's warranty to cover products not manufactured by Seller.
3. Seller warrants to Buyer that services provided hereunder will be performed in a reasonable, workmanlike manner. Seller will have no liability under this warranty unless Seller is given written notice of the claimed breach and a description thereof within ninety (90) days after the service is rendered. Seller's entire liability and Buyer's sole remedy under this warranty shall be limited to the provision of such remedial or replacement services as Seller reasonably determines necessary to correct the breach.
4. THE FOREGOING WARRANTY PROVISIONS ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY AGAINST INFRINGEMENT OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
5. Remedies of Buyer for any breach of warranty are limited to those provided herein to the exclusion of all other remedies, including, without limitation, incidental or consequential damages. No warranty or agreement varying or extending the foregoing warranty and limitation of remedy provisions may be relied upon by Buyer unless it is in writing and signed by the CEO or an Officer of Seller. No representation or affirmation of Seller, whether by words or action, shall be construed as a warranty. If any model or sample was shown to Buyer, such model or sample was used merely to illustrate the general type and quality of the products and not to represent that the products would necessarily conform to the model or sample.
6. If Buyer discovered a product purchased from Bastion Technologies to fail or does not work in accordance with the published specifications, please follow the RMA process online at www.bastiontech.com under PRODUCTS for all warranty claims.

bastion technologies

International Headquarters: 175 W 7065 S, Midvale, UT 84047, USA
Phone: (800) 328-6024 || Fax: (801) 449-9793
Email: info@bastiontech.com || Website: http://www.bastiontech.com

COPYRIGHT © 2012 BASTION TECHNOLOGIES, ALL RIGHTS RESERVED.